

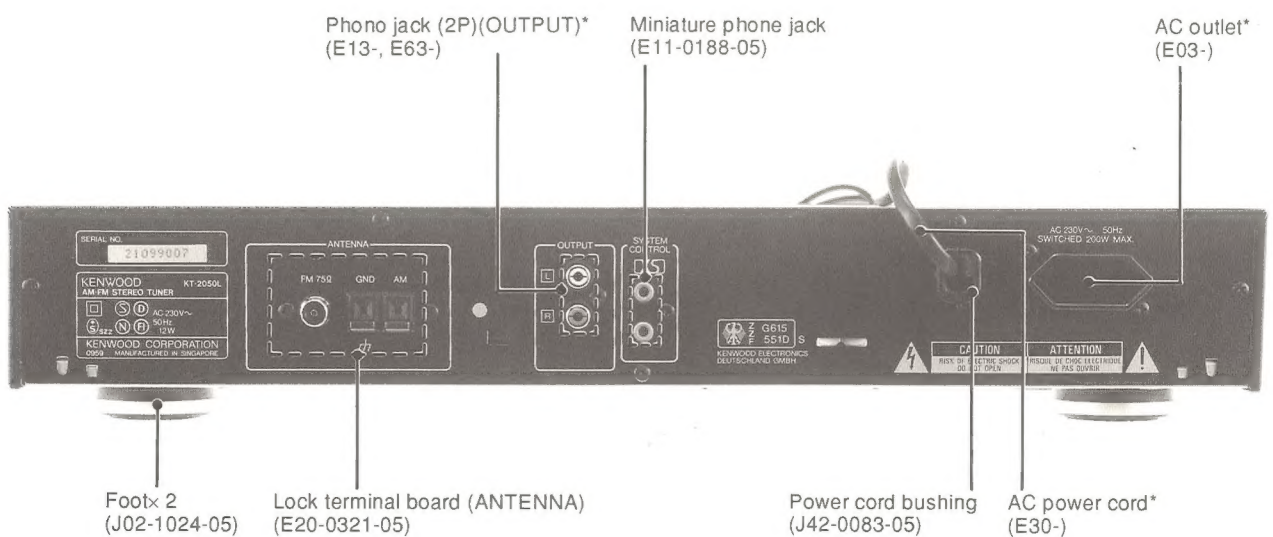
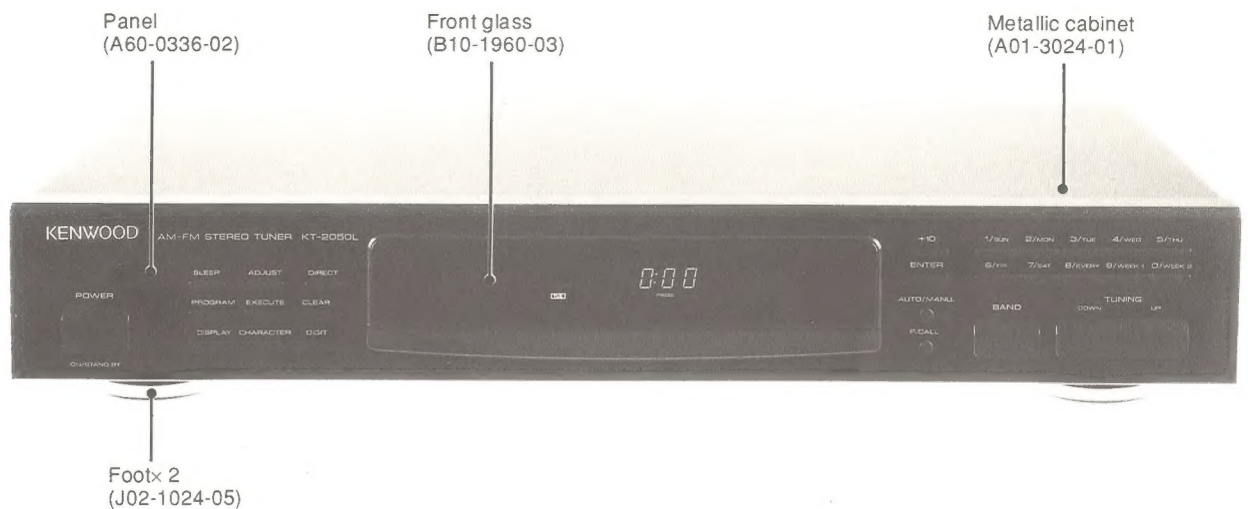
QUARTZ SYNTHESIZER AM-FM STEREO TUNER

KT-2050L

SERVICE MANUAL

KENWOOD

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B51-4689-00 (S) 1980



* Refer to parts list on page 20.

KT-2050L

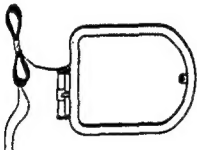
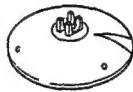
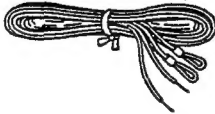
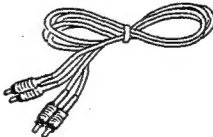
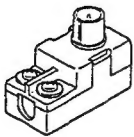
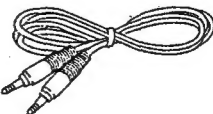
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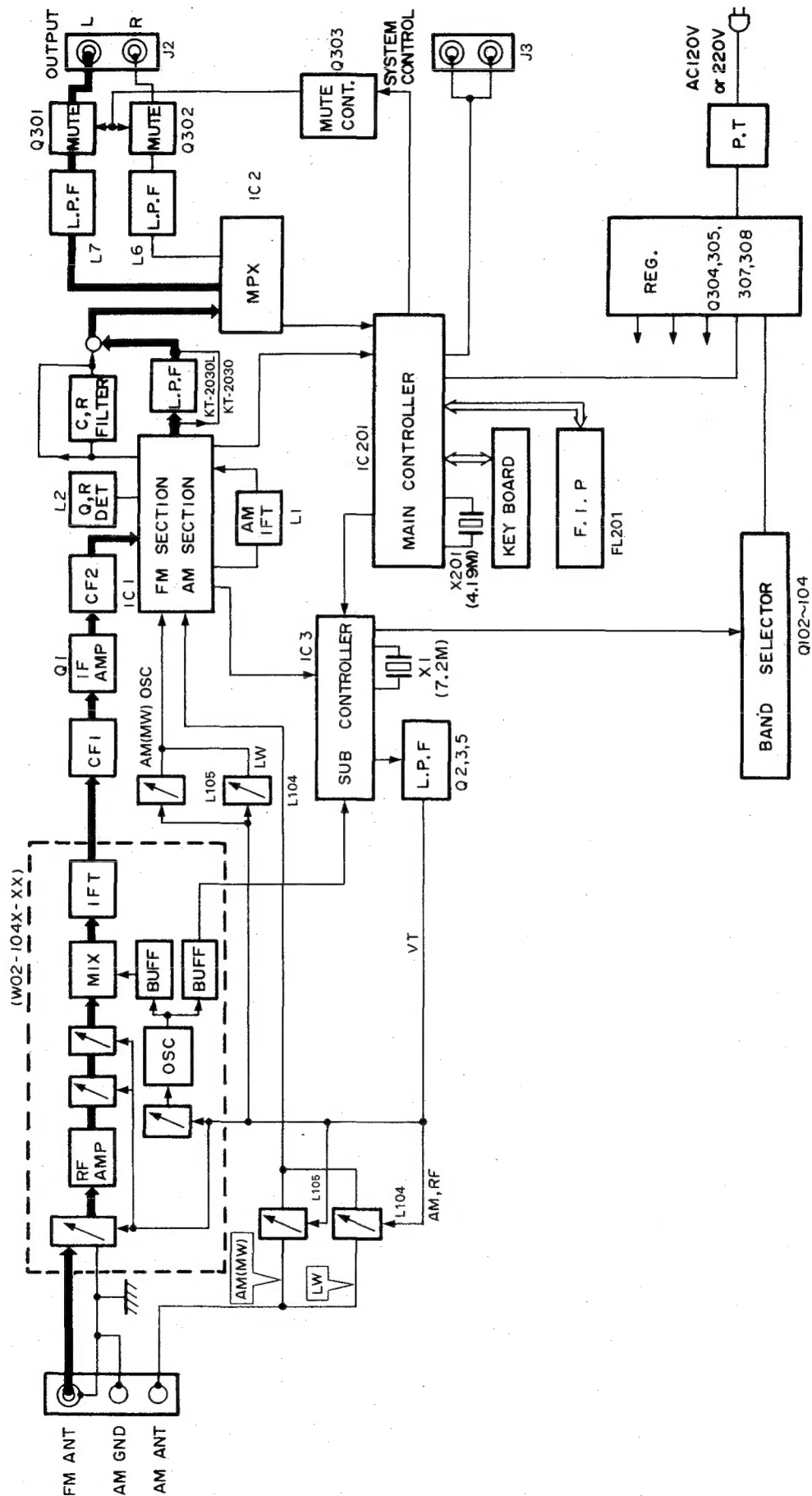
	SINGAPORE MADE	FRANCE MADE
KT-2050L	X05-4370-51 (T) X05-4372-70 (E)	X05-4372-71 (E)

The KT-2050L is made in different countries. However, their circuits are identical.

ACCESSORIES

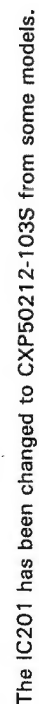
LOOP ANTENNA (T90-0153-05): FRANCE MADE (T90-0174-05): SINGAPORE MADE 	ANTENNA HOLDER (J19-2815-04) 
T TYPE ANTENNA (T90-0175-05) 	AUDIO CORD (E30-0505-05) 
ANTENNA ADAPTOR (T90-0185-05) 	SYSTEM CONTROL CORD (E30-2733-05) 

BLOCK DIAGRAM



CIRCUIT DESCRIPTION

1.1 Blockdiagram of surrounding microprocessor



CIRCUIT DESCRIPTION

1.2 Pin functions

Pin No.	Pin name	I/O	Name	Operation description
1	T1	O	G2	FL grid output 2G
2	T0	O	G1	FL grid output 1G
3	INT	I		No use (GND)
4	RST	I	RESET	Reset input H: NORMAL L: RESET
5	ADI/PB3	I/O	BUSY	System control BUSY input/output
6	EC	I		No use (GND)
7	SC/PX0	I	BIL	BILINGUAL H: NORMAL L: BILINGUAL
8	SO/PX1	I	STEREO	Stereo signal input H: MONO L: STEREO
9	SI/PX2	I	TUNED	Tuning signal input H: NO L: TUNED
10	PFO	I	KR0	Key return input H: ON L: OFF
11	PF1	I	KR1	Key return input H: ON L: OFF
12	PF2	I	KR2	Key return input H: ON L: OFF
13	PF3	I	KR3	Key return input H: ON L: OFF
14	PEO	O	KS0	Key scan output H: ON L: OFF
15	PE1	O	KS1	Key scan output H: ON L: OFF
16	PE2	O	KS2	Key scan output H: ON L: OFF
17	PE3	O	KS3	Key scan output H: ON L: OFF
18	PY0	O		No use (OPEN)
19	PWM/PY1	O	MONO	Forced MONO output H: MONO L: STEREO
20	WP/PY2	I	CE	AC OFF detection input H: AC ON L: AC OFF
21	RMC/PY3	I	DATAI	System control DATA input
22	PD0	O	DATAO	System control DATA output
23	PD1	O	MUTE	Line mute H: MUTE OFF L: MUTE ON
24	PD2	O	MAIN	No use
25	PD3	O	SUB	No use
26	PC0	I	KR4	Key return input H: ON L: OFF
27	PC1	I	KR5	Key return input H: ON L: OFF
28	PC2	I	KR6	Key return input H: ON L: OFF
29	PC3	I	KR7	Key return input H: ON L: OFF
30	XTAL			Quartz oscillator 4.194304MHz
31	EXTAL			Quartz oscillator 4.194304MHz
32	V _{ss}			GND pin
33	V _{FDP}			-30 V

CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Name	Operation description
34	PH0/S0	O	POWER	POWER ON/OFF control H: ON L: OFF
35	PH1/S1	O	DT/KS4	PLL DATA output Key scan output for destination SW
36	PH2/S2	O	CLK	PLL CLOCK output
37	PH3/S3	O	PCE	PLL CE output
38	PG0/S4	O	Sh	FL segment output h
39	PG1/S5	O	Sc	FL segment output c
40	PG2/S6	O	Se	FL segment output e
41	PG3/S7	O	Sd	FL segment output d
42	PK0/S8	O	Sg	FL segment output g
43	PK1/S9	O	Sf	FL segment output f
44	PK2/S10	O	Sb	FL segment output b
45	PK3/S11	O	Sa	FL segment output a
46	PJ0/S12	O	Sq	FL segment output q
47	PJ1/S13	O	Sr	FL segment output r
48	PJ2/S14	O	Sj	FL segment output j
49	PJ3/S15	O	Si	FL segment output i
50	S16/T15	O	Sk	FL segment output k
51	S17/T14	O	Sn	FL segment output n
52	S18/T13	O	So	FL segment output o
53	S19/T12	O	Sp	FL segment output p
54	S20/T11	O	Sl	FL segment output l
55	S21/T10	O	Sm	FL segment output m
56	S22/T9	O	G10	FL grid output 10G
57	S23/T8	O	G9	FL grid output 9G
58	T7	O	G8	FL grid output 8G
59	T6	O	G7	FL grid output 7G
60	T5	O	G6	FL grid output 6G
61	T4	O	G5	FL grid output 5G
62	T3	O	G4	FL grid output 4G
63	T2	O	G3	FL grid output 3G
64	V _{DD}			+ 5 V (Power supply)

CIRCUIT DESCRIPTION

1.3 Test mode

(1) Method of setting

While pressing the DOWN key, turn AC ON.

(2) Contents

Power ON

FLL all lit

Test frequency setting (Table 1)

(3) Method of canceling

Clearing the FL all lit state is performed by numeral key, BAND key, UP/DOWN key or POWER key.

1.4 Initial status setting (reset)

(1) Method

While pressing the ENTER key, turn AC ON.

(2) Contents

The all memory is cleared and the initial status is fully restored. At this time, however, test frequency is newly memorized in the preset memory. (Table 1.)

1.5 Initial State

(1) Tuner section

Power..... OFF

Last band..... FM

Last channel..... Lower limit of any band, with station name portion blanked (band name display)

Last preset channel..... "—" display

Preset memory..... Test frequencies occurring on a separate table are set. (Table 1)

Auto/mono..... Any band in auto mode

Display..... POWER ON: Frequency display mode

POWER OFF: Day timer mode

(2) Calender, day timer and timer section

Calendar and day timer..... Jan. 1 (Tuesday) of 1991
0:00 power failure mode

Program timer..... ON: Sunday 0:00
OFF: ... 0:00

P-ch: 01ch

Execution mode: OFF

Sleep timer..... OFF

Test frequency

Destination Preset channel	T, E TYPE	
01 ch	FM	89.1MHz
02 ch	FM	108.0MHz
03 ch	AM	630kHz
04 ch	AM	990kHz
05 ch	AM	1440kHz
06 ch	AM	1602kHz
07 ch	LW	162kHz
08 ch	LW	216kHz
09 ch	LW	270kHz
10 ch	FM	89.1MHz
11 ch	LW	281kHz
12 ch	FM	87.5MHz
13 ch	FM	87.5MHz
14 ch	FM	87.5MHz
15 ch	FM	87.5MHz
16 ch	FM	87.5MHz
17 ch	FM	87.5MHz
18 ch	FM	87.5MHz
19 ~ 30 ch	FM	87.5MHz

(Table. 1)

- The last area of each band contains the lowest value of that band.

KT-2050L

CIRCUIT DESCRIPTION

1.6 Conditions by destination

Destination Type	Destination switches				Band	Receiving frequency range	Inter-channel space	Intermediate frequency	PLL reference frequency
	B3	B2	B1	B0					
T, E	1	1	0	1	FM	87.5 ~ 108.0 MHz	50 kHz	+ 10.7 MHz	50 kHz
					MW	531 ~ 1602 kHz	9 kHz	+ 450 kHz	9 kHz
					LW	153 ~ 281 MHz	1 kHz	+ 450 kHz	1 kHz

(1: With diode, 0: Without diode)

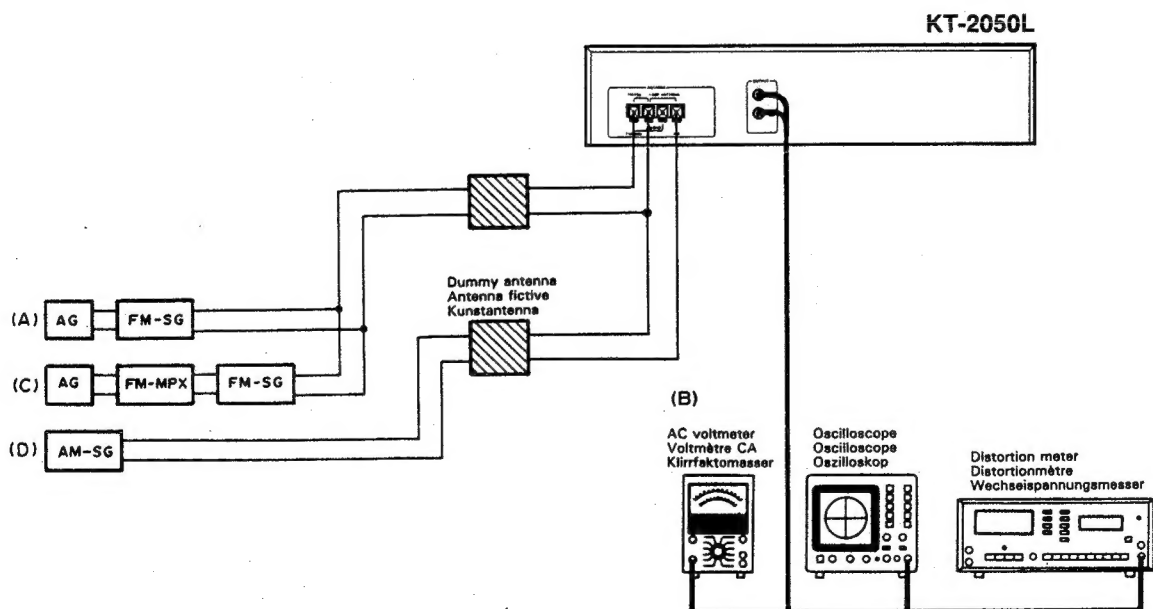
2. IC3: LM7001 PLL IC

Band select

Destination (TYPE)	BAND	B01 (7 PIN)	B02 (8 PIN)	B03 (9 PIN)
KT-2050L	FM	H	H	L
	MW	H	L	H
	LW	L	H	H

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION SELECTOR: FM							
1	DISCRIMINATOR	(A) 98.0 MHz 1 kHz, ± 75 kHz dev 60 dB μ (ANT input)	Connect a DC voltmeter between TP3 and TP4. (X05-)	AUTO or MONO 98.0 MHz	L2 (X05-) L9 (X05-)	0V Minimum distortion.	(a)
2	VCO	(A) 98.0 MHz 0 dev 60 dB μ (ANT input)	Connect a frequency counter to TP5 and TP6(GND). (X05-)	AUTO 98.0 MHz	VR2 (X05-)	19.00 kHz	(b)
3	DISTORTION (STEREO)	(C) 98.0 MHz 1 kHz, ± 68.25 kHz dev Pilot: ± 7.5 kHz dev 60 dB μ (ANT input)	(B)	AUTO 98.0 MHz	IFT (W02-)	Minimum distortion.	
4	SEPARATION	(C) 98.0 MHz 1 kHz, ± 40 kHz dev Pilot: ± 6 kHz dev Selector: L or R 60 dB μ (ANT input)	(B)	AUTO 98.0 MHz	VR4 (X05-)	Minimum crosstalk.	
5	TUNING LEVEL	(A) 98.0 MHz 1 kHz, ± 75 kHz dev 14 dB μ (ANT input) 75 Ω 18 dB μ (ANT input) 300 Ω	(B)	AUTO or MONO 98.0 MHz	VR1 (X05-)	Adjust VR1 and stop at the point where FL201(TUNED) goes ON.	
AM (MW) SECTION SELECTOR: AM (MW)							
(1)	TUNING LEVEL	(D) 1008 kHz 400 Hz, 30% mod 26 dB μ (ANT input)	(B)	1008 kHz	VR3 (X05-)	Adjust VR3 and stop at the point where FL201(TUNED) goes ON.	



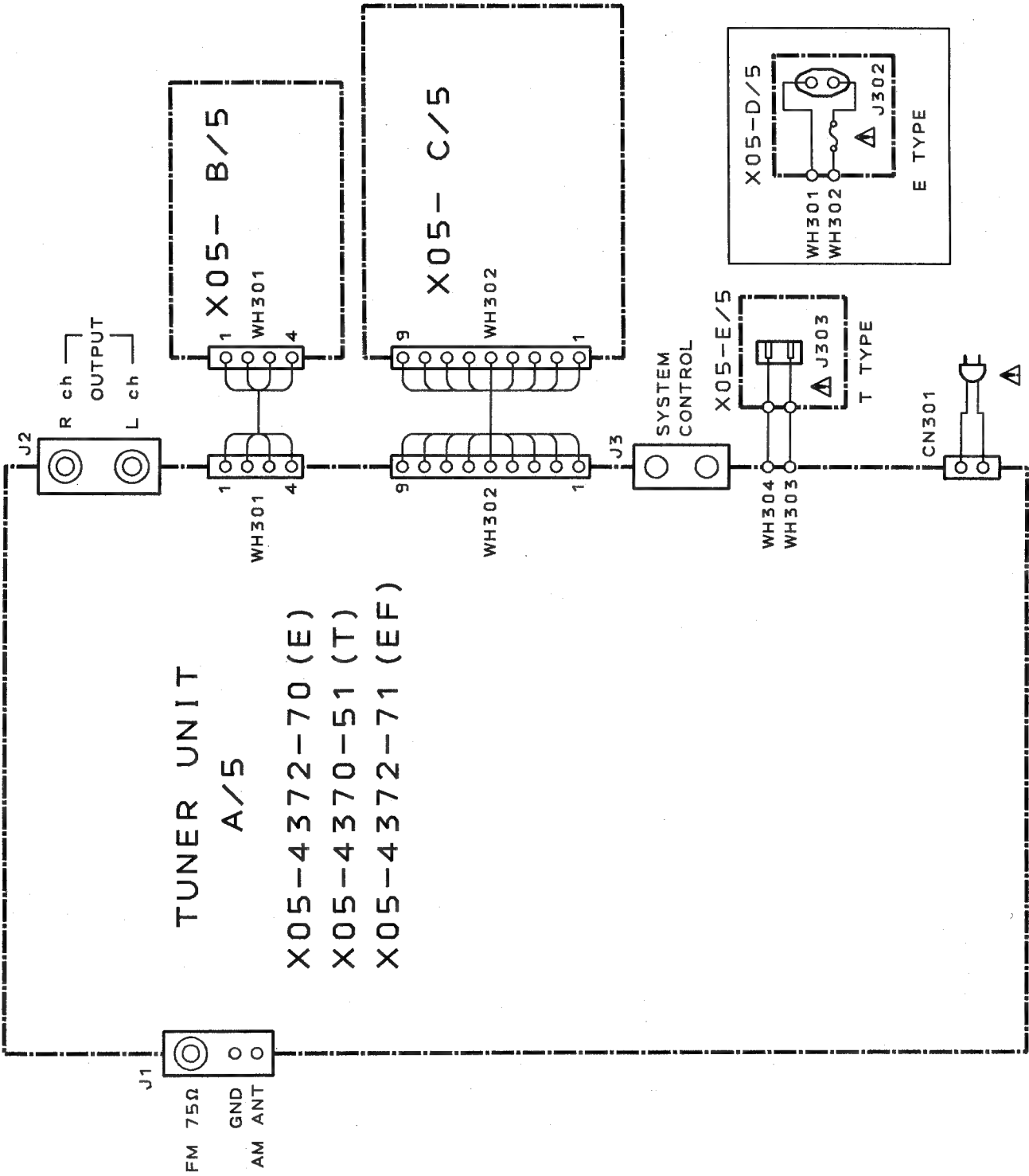
REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF SELECTEUR: FM							
1	DETECTEUR	(A) 98,0 MHz 1 kHz. ± 75 kHz dév 60 dB μ (Entrée ANT)	Relier un voltmètre CC entre les TP3 et TP4. (X05-)	AUTO ou MONO 98,0 MHz	L2 (X05-) L9 (X05-)	0V Distorsion minimale.	(a)
2	OSCILLATEUR CONTROLE PAR LA TENSION	(A) 98,0 MHz 0 dév 60 dB μ (Entrée ANT)	Relier un compteur de fréquence entre les TP5 et TP6 (GND). (X05-)	AUTO 98,0 MHz	VR2 (X05-)	19,00 kHz	(b)
3	DISTORSION (STEREO)	(C) 98,0 MHz 1 kHz. $\pm 68,25$ kHz dév Signal pilote: $\pm 7,5$ kHz dév 60 dB μ (Entrée ANT)	(B)	AUTO 98,0 MHz	IFT (W02-)	Distorsion minimale.	
4	SEPARATION	(C) 98,0 MHz 1 kHz. ± 40 kHz dév Signal pilote: ± 6 kHz dév Selection: I ou R 60 dB μ (Entrée ANT)	(B)	AUTO 98,0 MHz	VR4 (X05-)	Diaphonie minimale.	
5	NIVEAU D'ACCORDER	(A) 98,0 MHz 1 kHz. ± 75 kHz dév 14 dB μ (Entrée ANT) 75 Ω 18 dB μ (Entrée ANT) 300 Ω	(B)	AUTO ou MONO 98,0 MHz	VR1 (X05-)	Ajuster VR1 et arrêter le mouvement de VR1 au moment où le FL201 (TUNED) s'allume.	
SECTION MA(MW) SELECTEUR: AM (MW)							
(1)	NIVEAU D'ACCORDER	(D) 1008 kHz 400 Hz, 30% mod 26 dB μ (Entrée ANT)	(B)	1008 kHz	VR3 (X05-)	Ajuster VR3 et arrêter le mouvement de VR3 au moment où le FL201 (TUNED) s'allume.	

ABGLEICH

WIRING DIAGRAM

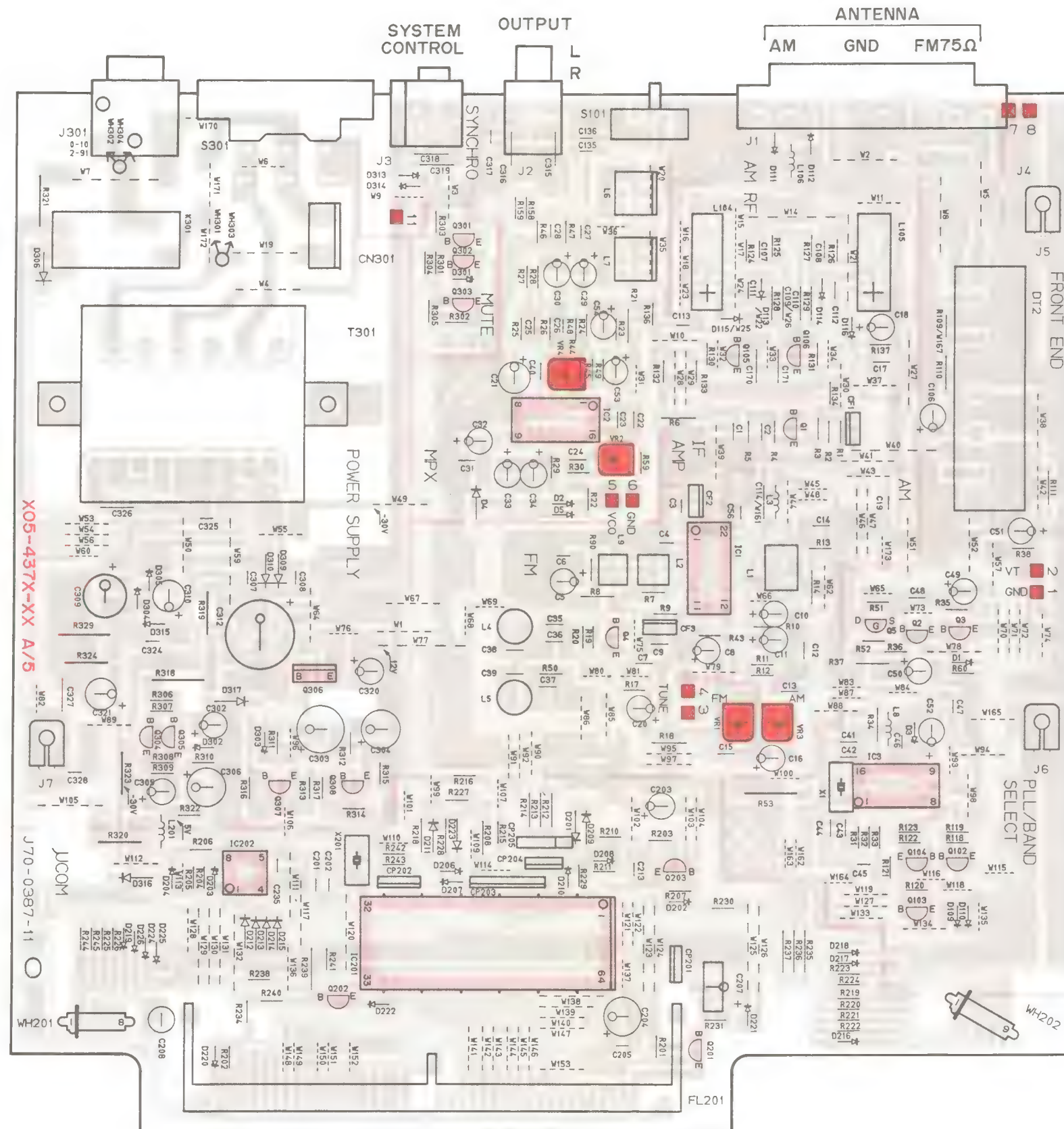
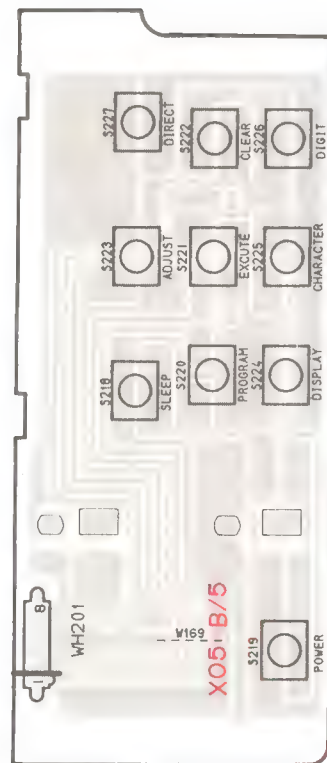
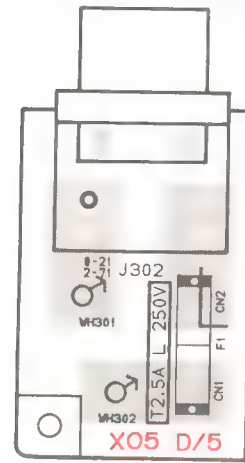
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-EMPFANGSABTEILUNG WÄHLER: FM							
1	DETEKTOR	(A) 98,0 MHz 1 kHz. ±75 kHz Hub 60 dBμ (ANT-Eingang)	Einen Gleichspannungs- messer zwischen TP3 und TP4 anschließen. (X05-)	AUTO oder MONO 98,0 MHz	L2 (X05-) L9 (X05-)	0V Minimal Klirrfaktor.	(a)
2	SPANNUNGS- GEREGELTER OSZILLATOR	(A) 98,0 MHz 0 Hub 60 dBμ (ANT-Eingang)	Einen Frequenzzähler zwischen TP5 und TP6 (GND) anschließen. (X05-)	AUTO 98,0 MHz	VR2 (X05-)	19,00 kHz	(b)
3	KLIRRFAKTOR (STEREO)	(C) 98,0 MHz 1 kHz.±68,25 kHz Hub Piloten: ±7,5 kHz Hub 60 dBμ(ANT-Eingang)	(B)	AUTO 98,0 MHz	IFT (W02-)	Minimal Klirrfaktor.	
4	STEREO KANAL TRENNUNG	(C) 98,0 MHz 1 kHz.±40 kHz Hub Piloten: ±6 kHz Hub Wähler: L oder R 60 dBμ(ANT-Eingang)	(B)	AUTO 98,0 MHz	VR4 (X05-)	Minimal Klirrfaktor.	
5	ABSTIMM PEGEL	(A) 98,0 MHz 1 kHz.±75 kHz Hub 14 dBμ (ANT-Eingang) 75Ω 18 dBμ(ANT-Eingang)300 Ω	(B)	AUTO oder MONO 98,0 MHz	VR1 (X05-)	Den Pegel widerstand aufdrehen, und dem VR1 Halt geben wobei den FL201 (TUNED) anzeiger leuchtet wird.	
MW-EMPFANGSABTEILUNG WÄHLER: AM (MW)							
(1)	ABSTIMM PEGEL	(D) 1008 kHz 400 Hz, 30% mod 26 dBμ(ANT-Eingang)	(B)	1008 kHz	VR3 (X05-)	Den Pegel widerstand aufdrehen, und dem VR3 Halt geben wobei den FL201 (TUNED) anzeiger leuchtet wird.	



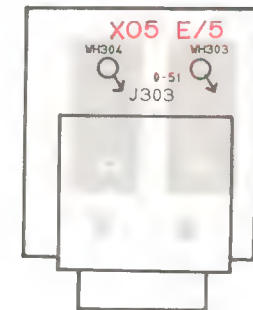
PC BOARD (Component side view)

TUNER UNIT

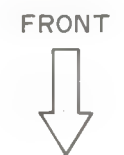
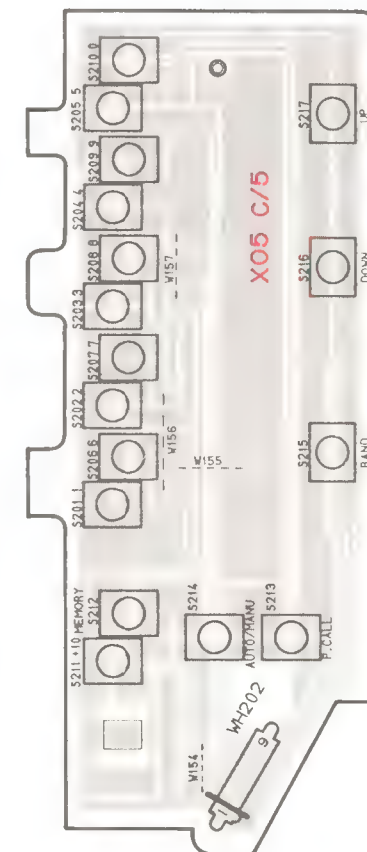
(E TYPE)
AC230V~ 50Hz
SWITCHED 200W MAX.



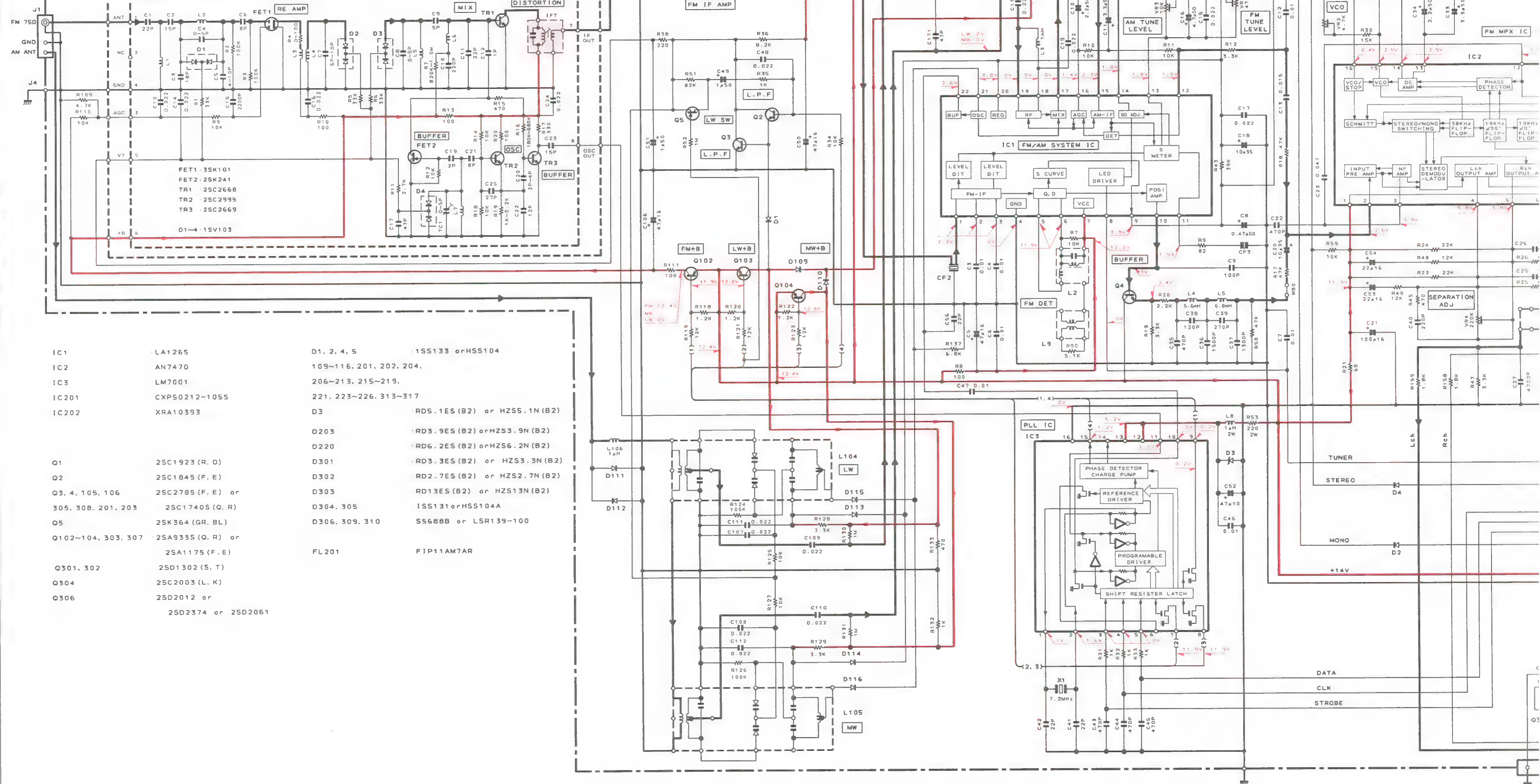
(T TYPE)



AC230V~ 50Hz
SWITCHED 200W MAX.

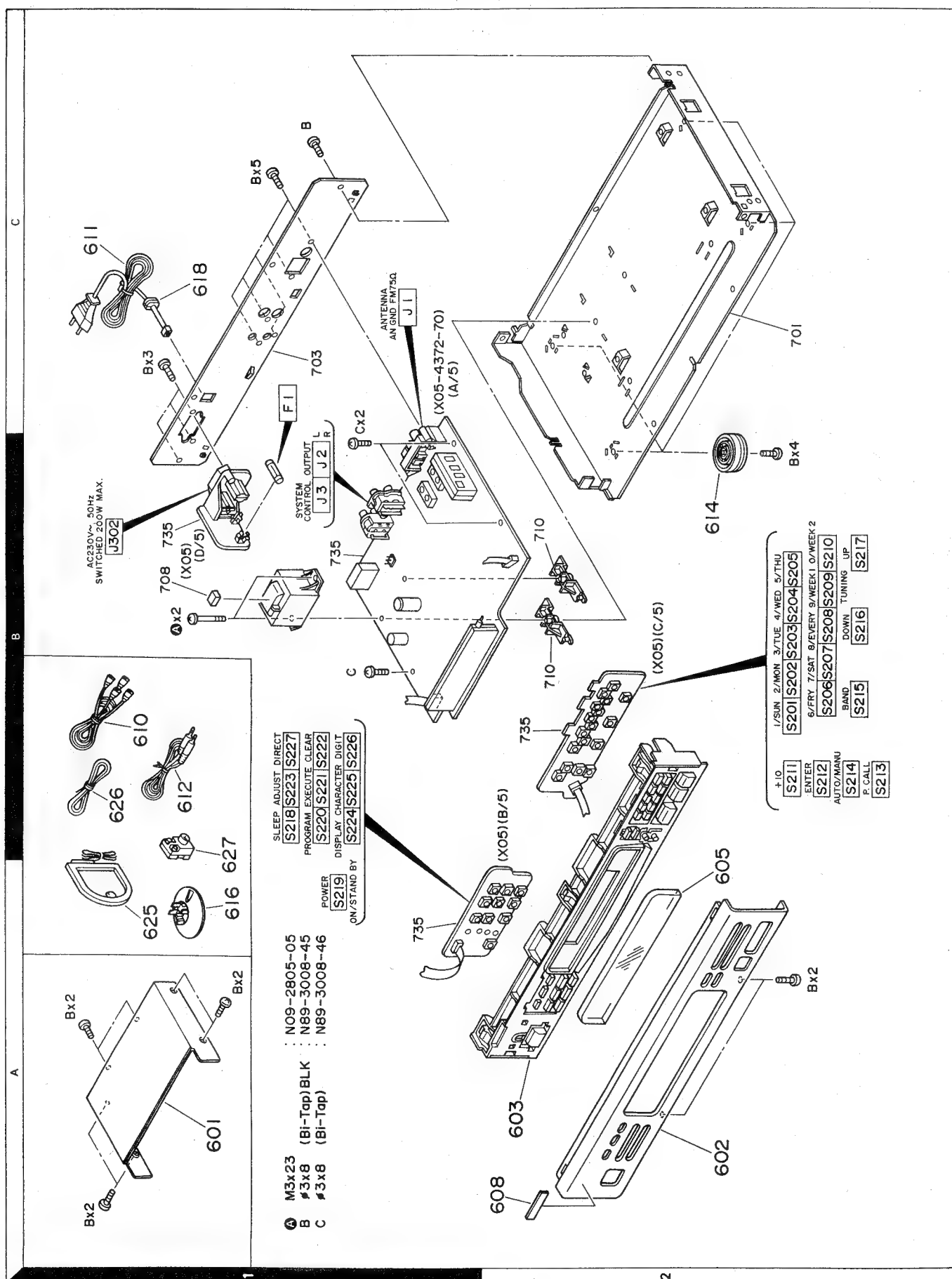


Refer to the schematic diagram for the values of resistors and capacitors.



KT-2050L

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

✕ New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le **Partis No.** ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
参照番号	位置	新	部品番号	部品名 / 規格	仕向	備考
KT-2050L (SINGAPORE MADE)						
601	1A	*	A01-3024-01	METALLIC CABINET		
602	2A	*	A60-0336-02	PANEL		
603	2A	*	A22-1606-01	SUB PANEL		
605	2A	*	B10-1960-03	FRONT GLASS		
608	2A		B43-0287-04	KENWOOD BADGE		
-			B46-0122-23	WARRANTY CARD		
-			B46-0143-13	WARRANTY CARD		
-		*	B60-1119-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-1120-00	INSTRUCTION MANUAL (F,G,D,I,S)		
610	1B		E30-0505-05	AUDIO CORD		
611	1C		E30-2592-15	AC POWER CORD		
611	1C		E30-2721-05	AC POWER CORD		
612	1B	*	E30-2733-05	CORD WITH PLUG		
-		*	H50-0558-04	ITEM CARTON CASE		
-		*	H50-0559-04	ITEM CARTON CASE		
-			H10-3819-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5476-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5477-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0651-04	PROTECTION BAG (0232 PRINTED)		
-		*	H25-0652-04	PROTECTION BAG (0223 PRINTED)		
614	2B		J02-1024-05	FOOT		
616	1A		J19-2815-04	ANTENNA HOLDER		
618	1C		J42-0083-05	POWER CORD BUSHING		
A	1B		N09-2805-05	TAPTITE SCREW		
B	1A, 1C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
C	1B		N89-3008-46	BINDING HEAD TAPTITE SCREW		
625	1A		T90-0174-05	LOOP ANTENNA		
626	1B		T90-0175-05	T TYPE ANTENNA		
627	1A		T90-0185-05	ANTENNA ADAPTOR		
KT-2050L (FRANCE MADE)						
601	1A	*	A01-3024-01	METALLIC CABINET		
602	2A	*	A60-0336-02	PANEL		
603	2A	*	A22-1606-01	SUB PANEL		
605	2A	*	B10-1960-03	FRONT GLASS		
608	2A		B43-0287-04	KENWOOD BADGE		
-			B46-0122-23	WARRANTY CARD		
-		*	B60-1119-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-1120-00	INSTRUCTION MANUAL (F,G,D,I,S)		
610	1B		E30-0505-05	AUDIO CORD		
611	1C		E30-2592-15	AC POWER CORD		
612	1B	*	E30-2733-05	CORD WITH PLUG		
-		*	H50-0569-04	ITEM CARTON CASE		
-			H10-3781-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
614	2B		J02-1024-05	FOOT		
616	1A		J19-2815-04	ANTENNA HOLDER		
618	1C		J42-0083-05	POWER CORD BUSHING		

L:Scandinavia

K:USA

P:Canada

S: SINGAPORE MADE
F: FRANCE MADE

Y:PX(Far East, Hawaii)

T:England

E:Europe

Y:AAFES(Europe)

X:Australia

M:Other Areas

⚠ indicates safety critical components.

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
A	1B		N09-2805-05	TAPTITE SCREW		
B	1A, 1C		N89-3008-46	BINDING HEAD TAPTITE SCREW		
C	1B		N89-3008-45	BINDING HEAD TAPTITE SCREW		
625	1A		T90-0153-05	LOOP ANTENNA		
626	1B		T90-0175-05	T TYPE ANTENNA		
627	1A		T90-0185-05	ANTENNA ADAPTOR		
TUNER UNIT (X05-437X-XX)						
C1 -4			CK45FF1H103Z	CERAMIC 0.010UF Z		
C5			CE04KW1C470M	ELECTR0 47UF 16WV		F
C5			CE04LW1C470M	ELECTR0 47UF 16WV		S
C6 ,7			CK45FF1H103Z	CERAMIC 0.010UF Z		
C8			CE04KW1HR47M	ELECTR0 0.47UF 50WV		F
C8			CE04LW1HR47M	ELECTR0 0.47UF 50WV		S
C9			CC45FSL1H101J	CERAMIC 100PF J		
C10			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		F
C10			CE04LW1H2R2M	ELECTR0 2.2UF 50WV		S
C11			CE04KW1H3R3M	ELECTR0 3.3UF 50WV		F
C11			CE04LW1H3R3M	ELECTR0 3.3UF 50WV		S
C12			CK45FF1H103Z	CERAMIC 0.010UF Z		
C13			CQ92FM1H153J	MYLAR 0.015UF J		
C14 ,15			CK45FF1H223Z	CERAMIC 0.022UF Z		
C16			CE04KW1V4R7M	ELECTR0 4.7UF 35WV		F
C16			CE04LW1V4R7M	ELECTR0 4.7UF 35WV		S
C17			CK45FF1H223Z	CERAMIC 0.022UF Z		
C18			CE04KW1V100M	ELECTR0 10UF 35WV		F
C18			CE04LW1V100M	ELECTR0 10UF 35WV		S
C19			CK45FF1H223Z	CERAMIC 0.022UF Z		
C20			CE04KW1V100M	ELECTR0 10UF 35WV		F
C20			CE04LW1V100M	ELECTR0 10UF 35WV		S
C21			CE04KW1C101M	ELECTR0 100UF 16WV		F
C21			CE04LW1C101M	ELECTR0 100UF 16WV		S
C22			CK45FB1H471K	CERAMIC 470PF K		
C23			CF92FV1H473J	MF 0.047UF J		
C24			CC93FCH1H471J	CERAMIC 470PF J		
C25 ,26			CK45FB1H102K	CERAMIC 1000PF K		
C27 ,28			CQ92FM1H472J	MYLAR 4700PF J		
C29 ,30			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		F
C29 ,30			CE04LW1H2R2M	ELECTR0 2.2UF 50WV		S
C31			CK45FF1H103Z	CERAMIC 0.010UF Z		
C32			CE04KW1HR47M	ELECTR0 0.47UF 50WV		F
C32			CE04LW1HR47M	ELECTR0 0.47UF 50WV		S
C33			CE04KW1H3R3M	ELECTR0 3.3UF 50WV		F
C33			CE04LW1H3R3M	ELECTR0 3.3UF 50WV		S
C34			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		F
C34			CE04LW1H2R2M	ELECTR0 2.2UF 50WV		S
C35			CK45FB1H471K	CERAMIC 470PF K		
C36			CQ92FM1H152J	MYLAR 1500PF J		
C37			CQ92FM1H132J	MYLAR 1300PF J		
C38			CC45FSL1H121J	CERAMIC 120PF J		
C39			CC45FSL1H271J	CERAMIC 270PF J		
C40			CC45FSL1H221J	CERAMIC 220PF J		
C41 ,42			CC45FCH1H220J	CERAMIC 22PF J		
C43 -45			CK45FB1H471K	CERAMIC 470PF K		
C46 ,47			CK45FF1H103Z	CERAMIC 0.010UF Z		

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C48			CQ92FM1H223J	MYLAR 0.022UF J		
C49			CE04KW1H010M	ELECTR0 1.0UF 50WV		F
C49			CE04LW1H010M	ELECTR0 1.0UF 50WV		S
C50			CE04KW1C470M	ELECTR0 47UF 16WV		F
C50			CE04LW1C470M	ELECTR0 47UF 16WV		S
C51			CE04KW1H010M	ELECTR0 1.0UF 50WV		F
C51			CE04LW1H010M	ELECTR0 1.0UF 50WV		S
C52			CE04KW1A470M	ELECTR0 47UF 10WV		F
C52			CE04LW1A470M	ELECTR0 47UF 10WV		S
C53 ,54			CE04KW1C220M	ELECTR0 22UF 16WV		F
C53 ,54			CE04LW1C220M	ELECTR0 22UF 16WV		S
C56			CC45FSL1H220J	CERAMIC 22PF J		
C106			CE04KW1C470M	ELECTR0 47UF 16WV		F
C106			CE04LW1C470M	ELECTR0 47UF 16WV		S
C107,108			CK45FF1H223Z	CERAMIC 0.022UF Z		
C109,110			C91-0085-05	CERAMIC 0.022UF N		
C111-113			CK45FF1H223Z	CERAMIC 0.022UF Z		
C114			C91-0085-05	CERAMIC 0.022UF N		
C170			C91-0745-05	CERAMIC 100PF K		
C171			C91-0737-05	CERAMIC 47PF J		
C201,202			CC45FCH1H270J	CERAMIC 27PF J		
C203			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		F
C203			CE04LW1H2R2M	ELECTR0 2.2UF 50WV		S
C204			CE04KW0J471M	ELECTR0 470UF 6.3WV		F
C204			CE04LW0J471M	ELECTR0 470UF 6.3WV		S
C205			CK45FF1H223Z	CERAMIC 0.022UF Z		
C207			C90-1826-05	BACKUP 0.047F 5.5WV		
C208			C90-1332-05	NP-ELEC 10UF 25WV		
C213			CF92FV1H104J	MF 0.10UF J		
C235			CK45FF1H223Z	CERAMIC 0.022UF Z		
C302			CE04KW1V4R7M	ELECTR0 4.7UF 35WV		F
C302			CE04LW1V4R7M	ELECTR0 4.7UF 35WV		S
C303			CE04DW1C471M	ELECTR0 470UF 16WV		F
C303			CE04EW1C471M	ELECTR0 470UF 16WV		S
C304			CE04KW1E221M	ELECTR0 220UF 25WV		F
C304			CE04LW1E221M	ELECTR0 220UF 25WV		S
C305			CE04KW1H010M	ELECTR0 1.0UF 50WV		F
C305			CE04LW1H010M	ELECTR0 1.0UF 50WV		S
C306			CE04KW0J471M	ELECTR0 470UF 6.3WV		F
C306			CE04LW0J471M	ELECTR0 470UF 6.3WV		S
C307,308			CK45FF1H103Z	CERAMIC 0.010UF Z		
C309			CE04KW1H331M	ELECTR0 330UF 50WV		F
C309			CE04LW1H331M	ELECTR0 330UF 50WV		S
C310			CE04KW1E101M	ELECTR0 100UF 25WV		F
C310			CE04LW1E101M	ELECTR0 100UF 25WV		S
C312			CE04KW1E222M	ELECTR0 2200UF 25WV		F
C312			CE04LW1E222M	ELECTR0 2200UF 25WV		S
C315,316			C91-0749-05	CERAMIC 220PF K		
C317			CK45FF1H103Z	CERAMIC 0.010UF Z		
C318,319			C91-0749-05	CERAMIC 220PF K		
C320			CE04KW1V100M	ELECTR0 10UF 35WV		F
C320			CE04LW1V100M	ELECTR0 10UF 35WV		S
C321			CE04KW1E101M	ELECTR0 100UF 25WV		F
C321			CE04LW1E101M	ELECTR0 100UF 25WV		S
C324,325			CK45FF1H103Z	CERAMIC 0.010UF Z		

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A	1B		N09-2805-05	TAPTITE SCREW		
B	1A, 1C		N89-3008-46	BINDING HEAD TAPTITE SCREW		
C	1B		N89-3008-45	BINDING HEAD TAPTITE SCREW		
625	1A		T90-0153-05	LOOP ANTENNA		
626	1B		T90-0175-05	T TYPE ANTENNA		
627	1A		T90-0185-05	ANTENNA ADAPTOR		
TUNER UNIT (X05-437X-XX)						
C1 -4			CK45FF1H103Z	CERAMIC 0.010UF Z		
C5			CE04KW1C470M	ELECTR0 47UF 16WV		F
C5			CE04LW1C470M	ELECTR0 47UF 16WV		S
C6 ,7			CK45FF1H103Z	CERAMIC 0.010UF Z		
C8			CE04KW1HR47M	ELECTR0 0.47UF 50WV		F
C8			CE04LW1HR47M	ELECTR0 0.47UF 50WV		S
C9			CC45FSL1H101J	CERAMIC 100PF J		
C10			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		F
C10			CE04LW1H2R2M	ELECTR0 2.2UF 50WV		S
C11			CE04KW1H3R3M	ELECTR0 3.3UF 50WV		F
C11			CE04LW1H3R3M	ELECTR0 3.3UF 50WV		S
C12			CK45FF1H103Z	CERAMIC 0.010UF Z		
C13			CQ92FM1H153J	MYLAR 0.015UF J		
C14 ,15			CK45FF1H223Z	CERAMIC 0.022UF Z		
C16			CE04KW1V4R7M	ELECTR0 4.7UF 35WV		F
C16			CE04LW1V4R7M	ELECTR0 4.7UF 35WV		S
C17			CK45FF1H223Z	CERAMIC 0.022UF Z		
C18			CE04KW1V100M	ELECTR0 10UF 35WV		F
C18			CE04LW1V100M	ELECTR0 10UF 35WV		S
C19			CK45FF1H223Z	CERAMIC 0.022UF Z		
C20			CE04KW1V100M	ELECTR0 10UF 35WV		F
C20			CE04LW1V100M	ELECTR0 10UF 35WV		S
C21			CE04KW1C101M	ELECTR0 100UF 16WV		F
C21			CE04LW1C101M	ELECTR0 100UF 16WV		S
C22			CK45FB1H471K	CERAMIC 470PF K		
C23			CF92FV1H473J	MF 0.047UF J		
C24			CC93FCH1H471J	CERAMIC 470PF J		
C25 ,26			CK45FB1H102K	CERAMIC 1000PF K		
C27 ,28			CQ92FM1H472J	MYLAR 4700PF J		
C29 ,30			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		F
C29 ,30			CE04LW1H2R2M	ELECTR0 2.2UF 50WV		S
C31			CK45FF1H103Z	CERAMIC 0.010UF Z		
C32			CE04KW1HR47M	ELECTR0 0.47UF 50WV		F
C32			CE04LW1HR47M	ELECTR0 0.47UF 50WV		S
C33			CE04KW1H3R3M	ELECTR0 3.3UF 50WV		F
C33			CE04LW1H3R3M	ELECTR0 3.3UF 50WV		S
C34			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		F
C34			CE04LW1H2R2M	ELECTR0 2.2UF 50WV		S
C35			CK45FB1H471K	CERAMIC 470PF K		
C36			CQ92FM1H152J	MYLAR 1500PF J		
C37			CQ92FM1H132J	MYLAR 1300PF J		
C38			CC45FSL1H121J	CERAMIC 120PF J		
C39			CC45FSL1H271J	CERAMIC 270PF J		
C40			CC45FSL1H221J	CERAMIC 220PF J		
C41 ,42			CC45FCH1H220J	CERAMIC 22PF J		
C43 -45			CK45FB1H471K	CERAMIC 470PF K		
C46 ,47			CK45FF1H103Z	CERAMIC 0.010UF Z		

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C48			CQ92FM1H223J	MYLAR 0.022UF J		
C49			CE04KW1H010M	ELECTR0 1.0UF 50WV		F
C49			CE04LW1H010M	ELECTR0 1.0UF 50WV		S
C50			CE04KW1C470M	ELECTR0 47UF 16WV		F
C50			CE04LW1C470M	ELECTR0 47UF 16WV		S
C51			CE04KW1H010M	ELECTR0 1.0UF 50WV		F
C51			CE04LW1H010M	ELECTR0 1.0UF 50WV		S
C52			CE04KW1A470M	ELECTR0 47UF 10WV		F
C52			CE04LW1A470M	ELECTR0 47UF 10WV		S
C53 ,54			CE04KW1C220M	ELECTR0 22UF 16WV		F
C53 ,54			CE04LW1C220M	ELECTR0 22UF 16WV		S
C56			CC45FSL1H220J	CERAMIC 22PF J		
C106			CE04KW1C470M	ELECTR0 47UF 16WV		F
C106			CE04LW1C470M	ELECTR0 47UF 16WV		S
C107,108			CK45FF1H223Z	CERAMIC 0.022UF Z		
C109,110			C91-0085-05	CERAMIC 0.022UF N		
C111-113			CK45FF1H223Z	CERAMIC 0.022UF Z		
C114			C91-0085-05	CERAMIC 0.022UF N		
C170			C91-0745-05	CERAMIC 100PF K		
C171			C91-0737-05	CERAMIC 47PF J		
C201,202			CC45FCH1H270J	CERAMIC 27PF J		
C203			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		F
C203			CE04LW1H2R2M	ELECTR0 2.2UF 50WV		S
C204			CE04KW0J471M	ELECTR0 470UF 6.3WV		F
C204			CE04LW0J471M	ELECTR0 470UF 6.3WV		S
C205			CK45FF1H223Z	CERAMIC 0.022UF Z		
C207			C90-1826-05	BACKUP 0.047F 5.5WV		
C208			C90-1332-05	NP-ELEC 10UF 25WV		
C213			CF92FV1H104J	MF 0.10UF J		
C235			CK45FF1H223Z	CERAMIC 0.022UF Z		
C302			CE04KW1V4R7M	ELECTR0 4.7UF 35WV		F
C302			CE04LW1V4R7M	ELECTR0 4.7UF 35WV		S
C303			CE04DW1C471M	ELECTR0 470UF 16WV		F
C303			CE04EW1C471M	ELECTR0 470UF 16WV		S
C304			CE04KW1E221M	ELECTR0 220UF 25WV		F
C304			CE04LW1E221M	ELECTR0 220UF 25WV		S
C305			CE04KW1H010M	ELECTR0 1.0UF 50WV		F
C305			CE04LW1H010M	ELECTR0 1.0UF 50WV		S
C306			CE04KW0J471M	ELECTR0 470UF 6.3WV		F
C306			CE04LW0J471M	ELECTR0 470UF 6.3WV		S
C307,308			CK45FF1H103Z	CERAMIC 0.010UF Z		
C309			CE04KW1H331M	ELECTR0 330UF 50WV		F
C309			CE04LW1H331M	ELECTR0 330UF 50WV		S
C310			CE04KW1E101M	ELECTR0 100UF 25WV		F
C310			CE04LW1E101M	ELECTR0 100UF 25WV		S
C312			CE04KW1E222M	ELECTR0 2200UF 25WV		F
C312			CE04LW1E222M	ELECTR0 2200UF 25WV		S
C315,316			C91-0749-05	CERAMIC 220PF K		
C317			CK45FF1H103Z	CERAMIC 0.010UF Z		
C318,319			C91-0749-05	CERAMIC 220PF K		
C320			CE04KW1V100M	ELECTR0 10UF 35WV		F
C320			CE04LW1V100M	ELECTR0 10UF 35WV		S
C321			CE04KW1E101M	ELECTR0 100UF 25WV		F
C321			CE04LW1E101M	ELECTR0 100UF 25WV		S
C324,325			CK45FF1H103Z	CERAMIC 0.010UF Z		

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C326, 327 C328			C91-0769-05 CK45FF1H103Z	CERAMIC 0.01UF K CERAMIC 0.010UF Z		
J1			E20-0321-05	LOCK TERMINAL BOARD ANTENNA		
J2			E13-0235-05	PHONE JACK (2P) OUTPUT		F
J2			E63-0013-05	PHONE JACK OUTPUT		S
J3			E11-0188-05	MINIATURE PHONE JACK SYNCHRO		
△ J302			E03-0108-05	AC OUTLET	E	S
△ J302			E03-0108-05	AC OUTLET		F
△ J303			E03-0109-05	AC OUTLET	T	S
△ F1			F05-2525-05	FUSE (SEMKO) (250V T2.5A)	E	S
△ F1			F05-2525-05	FUSE (SEMKO) (250V T2.5A)		F
J4			F10-0759-04	SHIELDING PLATE		
CN1 ,2			J13-0075-05	FUSE CLIP	E	S
CN1 ,2			J13-0075-05	FUSE CLIP		F
CF1 ,2			L72-0536-05	CERAMIC FILTER		
CF3			L72-0096-05	CERAMIC FILTER		
L1			L30-0488-05	AM IFT		
L2			L30-0484-05	FM IFT		
L3			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
L4			L40-5625-20	SMALL FIXED INDUCTOR(5.6MH,J)		
L4			L40-5625-29	SMALL FIXED INDUCTOR(5.6MH,J)		
L5			L40-6825-20	SMALL FIXED INDUCTOR(6.8MH,J)		
L5			L40-6825-29	SMALL FIXED INDUCTOR(6.8MH,J)		
L6 ,7			L79-0790-05	LC FILTER		
L8			L40-1091-17	SMALL FIXED INDUCTOR		
L9			L30-0485-05	FM IFT		
L104			L39-0195-05	COMBINATION COIL		
L105			L39-0192-05	COMBINATION COIL		
L106			L40-1091-17	SMALL FIXED INDUCTOR		
L201			L40-1091-17	SMALL FIXED INDUCTOR		
△ T301			L07-0246-05	POWER TRANSFORMER		
X1			L77-1122-05	CRYSTAL RESONATOR 7.200MHz		
X201			L77-1175-05	CRYSTAL RESONATOR 4.194304MHz		
CP201			R90-0832-05	MULTI-COMP 4.7KX3 J 1/6W		
CP202			R90-0487-05	MULTI-COMP 47KX4 J 1/6W		
CP203			R90-0804-05	MULTI-COMP 47KX8 J 1/4W		
CP204			R90-0850-05	MULTI-COMP 100KX3 J 1/6W		
CP205			R90-0290-05	MULTI-COMP 10KX3 J 1/6W		
R53			RS14KB3D221J	FL-PROOF RS 220 J 2W		
R318			RS14KB3D121J	FL-PROOF RS 120 J 2W		
R319			RS14KB3A820J	FL-PROOF RS 82 J 1W		
R320			RS14KB3A121J	FL-PROOF RS 120 J 1W		
R323			RS14KB3A471J	FL-PROOF RS 470 J 1W		
R324			RS14KB3A222J	FL-PROOF RS 2.2K J 1W		
R329			RS14KB3D102J	FL-PROOF RS 1.0K J 2W		
VR1			R12-3687-05	TRIMMING POT.(33K) FM LEVEL		
VR2			R12-1619-05	TRIMMING POT.(4.7K) VCO ADJ		
VR3			R12-3685-05	TRIMMING POT.(10K) AM LEVEL		
VR4			R12-5652-05	TRIMMING POT.(220K) SEPARATION		
△ K301			S51-1052-05	MAGNETIC RELAY		
S201-227			S40-1064-05	PUSH SWITCH KEY BOARD		

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D1 ,2			HSS104	DIODE		S
D1 ,2			1SS133	DIODE		S
D1 ,2			1SS133	DIODE		F
D3			HZS5.1N(B2)	ZENER DIODE		S
D3			RD5.1ES(B2)	ZENER DIODE		S
D3			RD5.1ES(B2)	ZENER DIODE		F
D4 ,5			HSS104	DIODE		S
D4 ,5			1SS133	DIODE		S
D4 ,5			1SS133	DIODE		F
D109-116			HSS104	DIODE		S
D109-116			1SS133	DIODE		S
D109-116			1SS133	DIODE		F
D201,202			HSS104	DIODE		S
D201,202			1SS133	DIODE		S
D201,202			1SS133	DIODE		F
D203			HZS3.9N(B2)	ZENER DIODE		S
D203			RD3.9ES(B2)	ZENER DIODE		S
D203			RD3.9ES(B2)	ZENER DIODE		F
D204			HSS104	DIODE		S
D204			1SS133	DIODE		S
D204			1SS133	DIODE		F
D206-213			HSS104	DIODE		S
D206-213			1SS133	DIODE		S
D206-213			1SS133	DIODE		F
D206-213			1SS133	DIODE		S
D215-219			HSS104	DIODE		S
D215-219			1SS133	DIODE		S
D215-219			1SS133	DIODE		F
D220			HZS6.2N(B2)	ZENER DIODE		S
D220			RD6.2ES(B2)	ZENER DIODE		S
D220			RD6.2ES(B2)	ZENER DIODE		F
D221			HSS104	DIODE		S
D221			1SS133	DIODE		S
D221			1SS133	DIODE		F
D223-226			HSS104	DIODE		S
D223-226			1SS133	DIODE		S
D223-226			1SS133	DIODE		F
D301			HZS3.3N(B2)	ZENER DIODE		S
D301			RD3.3ES(B2)	ZENER DIODE		S
D301			RD3.3ES(B2)	ZENER DIODE		F
D302			HZS2.7N(B2)	ZENER DIODE		S
D302			RD2.7ES(B2)	ZENER DIODE		S
D302			RD2.7ES(B2)	ZENER DIODE		F
D303			HZS13N(B2)	ZENER DIODE		S
D303			RD13ES(B2)	ZENER DIODE		S
D303			RD13ES(B2)	ZENER DIODE		F
D304,305			HSS104A	DIODE		S
D304,305			1SS131	DIODE		S
D306			S5688B	DIODE		F
D306			1SR139-100	DIODE		S
D306			1SR139-100	DIODE		F
D309,310			S5688B	DIODE		S
D309,310			1SR139-100	DIODE		S
D309,310			1SR139-100	DIODE		F
D313-317			HSS104	DIODE		S
D313-317			1SS133	DIODE		S

L:Scandinavia

K:USA

P:Canada

S: SINGAPORE MADE

Y:PX(Far East, Hawaii)

T:England

E:Europe

F: FRANCE MADE

Y:AAFES(Europe)

X:Australia

M:Other Areas

⚠ indicates safety critical components.

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
D313-317 FL201 IC1 IC2 IC3			1SS133 FIP11AM7AR LA1265 AN7470 LM7001	DIODE INDICATOR TUBE IC(FM/AM TUNER) IC(FM MPX) IC(PLL FREQUENCY SYNTHESIZER)		F
IC201 IC202 Q1 Q2 Q3 ,4 Q3 ,4 Q3 ,4 Q5 Q102-104 Q102-104			CXP50212-105S XRA10393 2SC1923(R,Ø) 2SC1845(F,E) 2SC1740S(Q,R) 2SC1740S(Q,R) 2SC2785(F,E) 2SK364(GR,BL) 2SA1175(F,E) 2SA933S(Q,R)	IC IC(DUAL COMPALATOR) TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR FET TRANSISTOR TRANSISTOR		S F S S S S
Q102-104 Q105,106 Q105,106 Q105,106 Q201			2SA933S(Q,R) 2SC1740S(Q,R) 2SC1740S(Q,R) 2SC2785(F,E) 2SC1740S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		F S S S S
Q201 Q201 Q203 Q203 Q203			2SC1740S(Q,R) 2SC2785(F,E) 2SC1740S(Q,R) 2SC1740S(Q,R) 2SC2785(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		F S S S S
Q301,302 Q303 Q303 Q303 Q304			2SD1302(S,T) 2SA1175(F,E) 2SA933S(Q,R) 2SA933S(Q,R) 2SC2003(L,K)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		S S S F
Q305 Q305 Q305 Q306 Q306			2SC1740S(Q,R) 2SC1740S(Q,R) 2SC2785(F,E) 2SD2012 2SD2012	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		S F S S F
Q306 Q306 Q306 Q306 Q307			2SD2061 2SD2061 2SD2374 2SD2374 2SA1175(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		S F S F S
Q307 Q307 Q308 Q308 Q308			2SA933S(Q,R) 2SA933S(Q,R) 2SC1740S(Q,R) 2SC1740S(Q,R) 2SC2785(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		S F S F S
			W02-1041-15	FM FRONT-END ASSY		

L:Scandinavia

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Y:AAFES(Europe)

X:Australia

M:Other Areas

⚠ indicates safety critical components.

KT-2050L

SPECIFICATIONS

FM tuner section

Tuning frequency range	87.5 MHz-108 MHz
Usable sensitivity (DIN at 75Ω)	
MONO	0.7 μV
STEREO	22 μV
Total harmonic distortion (DIN at 1 kHz 65.2 dBf input)	
MONO	0.15 %
STEREO	0.4 %
Signal to Noise ratio (DIN weighted at 1 kHz, 65.2 dBf input)	
MONO	68 dB
STEREO	63 dB
Stereo separation (DIN)	
1 kHz	48 dB
Alternate channel selectivity (DIN ± 300 kHz)	64 dB
Frequency response (30 Hz-15 kHz)	+0.5 dB, -2 dB
Output level/Impedance (at 1 kHz, 75 kHz dev.)	0.6 V/3.3 kΩ

MW tuner section

Tuning frequency range	531 kHz-1,602 kHz
Usable sensitivity	13 μV/(400 μV/m)
Signal to noise ratio (at 30 % mod. 1 mV input)	50 dB
Total harmonic distortion	0.5 %

LW tuner section

Tuning frequency range	153 kHz-281 kHz
Usable sensitivity	22 μV
Signal to noise ratio (at 30 % mod. 1 mV input)	47 dB
Total harmonic distortion	0.6 %
Output level/Impedance (at 30 % mod. 1 mV input)	180 mV/3.3 kΩ

General

Power consumption	12 W
AC outlet	
SWITCHED	1 (200 W max.)
Dimensions	W: 440 mm (17-5/16")
	H : 79 mm (3-1/8")
	D : 264 mm (10-3/8")
Weight (Net)	2.6 kg (5.7 lb)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

KENWOOD strebt ständige, Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

Note

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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